

# ABHAY VENKATESH

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## OVERVIEW

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- Abhay Venkatesh is a *Tech Lead* at Anduril Industries, where he focuses on Autonomy Infrastructure, Simulation Infrastructure, Command-And-Control, and Lattice
- Abhay is mentored by **Jared Newman**, *Head of Platform* at Anduril, and **Nabil Enayet**, *Group Lead for Platform* at Anduril
- Prior to his Tech Lead role, Abhay worked directly under **Brian Schimpf**, *CEO and Co-Founder of Anduril*, and *ex-Director of Engineering at Palantir*, on Perception problems ranging from Edge Inference, Quantized Learning and Inference, to Object Detection and Mapping
- Abhay graduated from the University of Wisconsin-Madison with *Distinction and Departmental Honors with a Bachelor of Science in Computer Sciences and Mathematics*
- At the University of Wisconsin-Madison as an *Undergraduate Research Assistant*, Abhay worked on Computer Science research, focusing on Machine Learning, Computer Vision, Robotics, Human-Computer Interaction, Internet of Things, and Big Data Systems
- For his Machine Learning and Computer Vision Research, Abhay was advised by **Dr. Vikas Singh**, *Professor of Computer Science and Bioinformatics* at the University of Wisconsin-Madison
- For his Big Data Systems Research, Abhay was advised by **Dr. Shivaram Venkataram**, *Assistant Professor of Computer Science* at the University of Wisconsin-Madison
- For his Human-Computer Interaction and Robotics Research, Abhay was advised by **Dr. Bilge Mutlu**, *Associate Professor of Computer Science* at the University of Wisconsin-Madison
- Abhay has also worked at Facebook as a *Software Engineer Intern* on the News Feed Integrity Team, where he worked on machine learning, modeling, and product to improve the quality of the Facebook News Feed
- At Stanford University, Abhay was a *Research Intern* working on Robotics, Human-Computer Interaction, and Software Platform research advised by **Dr. Wendy Ju**, and **Dr. Michael Bernstein**
- In High School, Abhay was the *Valedictorian* for his breadth of excellence ranging from music and competitive quizzing to academics and entrepreneurship

## EDUCATION

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<b>Stanford University</b> Computer Science (Non-Degree)	Stanford, CA <i>Summer Session (GPA 4.0)</i>
<b>University of Southern California</b> B.S. Computer Science	Los Angeles, CA <i>Admitted but did not enroll</i>
<b>University of Wisconsin-Madison</b> B.S. Mathematics, Computer Sciences (Honors)	Madison, WI <i>Graduated with Distinction</i>

## PUBLICATIONS

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**Generating Accurate Pseudo-Labels in Semi-Supervised Learning and Avoiding Overconfident Predictions via Hermite Polynomial Activations**, CVPR 2020

**Generating Accurate Pseudo-labels via Hermite Polynomials for SSL Confidently**, Best Student Paper at MMLS 2019

**Nondecomposable Data Dependent Regularizers offer Significant Performance Gains**, DeepMath 2019

**Optimizing Nondecomposable Data Dependent Regularizers via Lagrangian Reparameterization offers Significant Performance and Efficiency Gains**, AAAI 2019, Ranking method on the Microsoft COCO Leaderboard

**The Case for Unifying Data-loading in Machine Learning Clusters**, HotCloud 2019, In Collaboration with Microsoft Research

**Learning View Invariant Semantic Segmentation for UAV Video Sequences**, SDM 2018, In Collaboration with American Family Insurance

#### TEST SCORES

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**GRE Composite** 99th Percentile  
**GRE Analytical Writing** 99th Percentile  
**GRE Verbal Reasoning** 98th Percentile  
**SAT Math** 97th Percentile

#### HIGHLIGHTED COURSEWORK

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**Stanford CS 161** *Design and Analysis of Algorithms*  
**UW-Madison CS 564** *Database Management Systems*  
**UW-Madison CS 838** *Graduate Learning Methods in Computer Vision*  
**UW-Madison CS 766** *Graduate Computer Vision*  
**UW-Madison CS 760** *Graduate Machine Learning*  
**UW-Madison CS 744** *Big Data Systems*  
**UW-Madison CS 540** *Artificial Intelligence*  
**UW-Madison CS 537** *Operating Systems*  
**UW-Madison Math 531** *Advanced Probability Theory*  
**UW-Madison Math 525** *Linear Programming*  
**UW-Madison Math 521** *Analysis I*  
**UW-Madison Math 522** *Analysis II*

#### AWARDS

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<b>Edison Award</b> <i>Awarded to Anduril for the Ghost Product which Abhay contributed to</i>	USA 2021
<b>Cornell, Maryland, and Max Planck Pre-Doctoral Research Fellowship</b> <i>Internationally recognized award, fully-funded seminar at the Max-Planck Institute</i>	Germany 2018
<b>Hilldale Undergraduate Research Fellowship</b> <i>Research award and funding</i>	Madison, WI 2018
<b>Phi Kappa Phi Nominee</b> <i>Top 7.5% of all juniors</i>	Madison, WI 2018
<b>Course Citation</b> <i>CS 564: Database Management Systems</i>	Madison, WI 2018
<b>The Hub CS Club Coding Competition</b> <i>1st place</i>	Madison, WI March, 2017
<b>Dean's Award of Excellence</b> <i>Awarded to Madison Enactus of which Abhay was the VP of Technology</i>	Madison, WI 2016
<b>Best Social Entrepreneurship Project, Transcend</b> <i>Awarded to Madison Enactus of which Abhay was the VP of Technology</i>	Madison, WI 2016
<b>John W. Jung Memorial Scholarship</b> <i>Awarded by UW-Madison for leadership, excellence, and service.</i>	Madison, WI 2016
<b>Dean's List</b> <i>University of Wisconsin-Madison</i>	Madison, WI 2016
<b>High School Valedictorian</b> <i>To the best overall student</i>	December, 2015
<b>National 3rd Place in Top Tech Quiz</b> <i>Prestigious national award out of 15,000 participants across the country</i>	December, 2014
<b>Acknowledgement by Head of State</b> <i>For Founding a Successful Not-For-Profit</i>	December, 2014
<b>State Recommendation</b> <i>For Founding a Successful Not-For-Profit</i>	December, 2014

#### LEADERSHIP

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<b>Judge</b> <i>Contrary Talent Hacks</i>	February, 2021
<b>Judge</b> <i>DubHacks</i>	October, 2020
<b>Judge</b> <i>HackThis by HackIllinois</i>	August, 2020
<b>Judge</b> <i>GarudaHacks</i>	August, 2020
<b>President, Co-Founder</b> <i>AI at UW, ai.cs.wisc.edu</i>	2017
<b>VP of Technology</b> <i>Madison Enactus</i>	2016
<b>Executive</b> <i>The Hub CS Club</i>	2016
<b>Chief Technology Officer</b> <i>Insight Wisconsin</i>	2016
<b>Executive</b> <i>Transcend</i>	2015
<b>Co-Founder</b> <i>Model United Nations</i>	2014
<b>Co-Founder</b> <i>Soccer Cup</i>	2014
<b>Co-Founder</b> <i>Student Parliament</i>	2013
<b>Quizmaster</b> <i>Top Engineering University</i>	2013

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#### ORGANIZATIONS

<b>Contrary Talent</b> <i>Member (~100 selected out of 2200+)</i>	<a href="http://contrarycap.com/talent">contrarycap.com/talent</a>
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